CPS-FC201

SHEET INDEX

CONTENTS	SHEET NO.	SHEET ISSUE
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	3	1
CMS 144D	4	1
	5	1
CMS 145K	6	1
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SYMBOL

ELEMENT IDENTIFICATION

TERM. MOD.	Δ FUNCT.	TERM.	LOC.
ESCAO	I	308	2D3
ESCBO	I	208	2D3
ESCCO	I	306	2C3
ESCDO	I	207	2B3
ESCEO	I	008	2B3
ESCFO	I	005	2A3
ESCGO	I	105	2C3
ESCHO	I	211	2F3
ESCJO	I	310	2F3
ESCKO	I	209	2E3
GP.DLYO	I	006	2B3
INITO	I	203	3A2
P21	I	106	2C3
P31	I	307	2C3
RSCAN	I	213	3B2
RSCAP	I	313	3A2
RSCBN	I	009	3B2
RSCBP	I	109	3B2
RSCCN	I	010	3C2
RSCCP	I	110	3B2
RSCDN	I	004	3C2
RSCDP	I	104	3C2
RSCEN	I	301	3D2
RSCEP	I	201	3D2
RSCFN	I	16	3D2
RSCFP	I	316	3D2
RSCGN	I	001	3E2
RSCGP	I	101	3D2
RSCHN	I	002	3E2
RSCHP	I	102	3E2
RSCIN	I	212	3F2
RSCIP	I	312	3E2
RSCJN	I	003	3F2
RSCJP	I	103	3F2
SDATAO	I	106	2C3

ELEMENT IDENTIFICATION

TERM. MOD.	Δ FUNCT.	TERM.	LOC.
ABCEFHIO	B	205	2D7
ABCEGHJO	B	305	2D7
ACEFGIJO	B	304	2D7
BCDO	B	206	2C7
EFGO	B	007	2B7
HIJO	B	311	2F7
ROTACO	B	303	3C6
SHFTO	B	204	3B6
SSCAN	B	218	2D7
SSCAP	B	318	2D7
SSCBN	B	015	2C7
SSCBP	B	115	2C7
SSCCN	B	014	2B7
SSCCP	B	116	2C7
SSCDN	B	017	2B7
SSCDP	B	117	2B7
SSCFN	B	018	2A7
SSCEP	B	118	2B7
SSCFN	B	217	2H7
SSCFP	B	317	2H7
SSCGN	B	011	2G7
SSCGP	B	111	2G7
SSCHN	B	012	2F7
SSCHP	B	112	2G7
SSCIN	B	C13	2F7
SSCIP	B	113	2F7
SSCJN	B	014	2E7
SSCJP	B	114	2E7
+3	P	000,119	2F2
GRD	G	200,319	2D2

RECORD OF CHANGES

DWG ISSUE	PREV FURN	STD	MFR DISC	SEE NOTE

NOTES:

1. ⏚ GROUND TURN
2. UNLESS OTHERWISE SPECIFIED:
   RESISTANCE VALUES ARE IN OHMS
   CAPACITANCE VALUES ARE IN MICROFARADS
   VALUES PRECEDED BY THE SYMBOL + (PLUS) OR - (MINUS) ARE IN VOLTS
3. BATTERY AND GROUND TERMINALS FOR INTEGRATED CIRCUITS

IC CODE	+3 TERM.	GRD TERM.
144D	1,18	2,4
	23,38	7,10
		13,16
		19,2
145K	17,21	9,10
	22,23	12
	24	

4. BATTERY AND GROUND TERMINALS FOR THIS CIRCUIT PACK ARE AS FOLLOWS

FUNCTION	TERMINAL
+3	000,119
GRD	200,319

5. HORIZONTAL MOUNTING CENTERS AT 0.5 INCH.

SYSTEM USED ON	DESIGN CONTROL
COMMON SYSTEMS	IH

SUPPORTING INFORMATION

CATEGORY	NO
CONNECTOR ON FRAME	947E OR 947C
SERIES FOR LATEST CLASS MAY CHANGE (ANY HIGHER SERIES IS ACCEPTABLE)	1

CURRENT DRAIN: 520 MA

SHEET INDEX NOTES

1. WHEN CHANGES ARE MADE IN THIS DRAWING, ONLY THOSE SHEETS AFFECTED WILL BE REISSUED.
2. THIS SHEET INDEX WILL BE REISSUED AND BROUGHT UP TO DATE EACH TIME ANY SHEET OF THE DRAWING IS REISSUED, OR A NEW SHEET IS ADDED.
3. THE ISSUE NUMBER ASSIGNED TO A CHANGED OR NEW SHEET WILL BE THE SAME ISSUE NUMBER AS THAT OF THE FIRST SHEET.
4. SHEETS THAT ARE NOT CHANGED WILL RETAIN THEIR EXISTING ISSUE NUMBER
5. THE LAST ISSUE NUMBER OF THE FIRST SHEET INDEX IS RECOGNIZED AS THE LATEST ISSUE NUMBER OF THE DRAWING AS A WHOLE

DWG ISSUE	ECR OR CD ISSUED	DATE ISSUED	DRAWN	APPD
1		1/M	AS JCL	JRG MTS RPB

1N98

FC201 CIRCUIT PACK
1C I/B SUBCHANNELS-BIPOLAR INTERFACE CIRCUIT

AT&TCO STANDARD

(2) CPS-FC201
7 SHEETS

BELL TELEPHONE LABORATORIES INCORPORATED

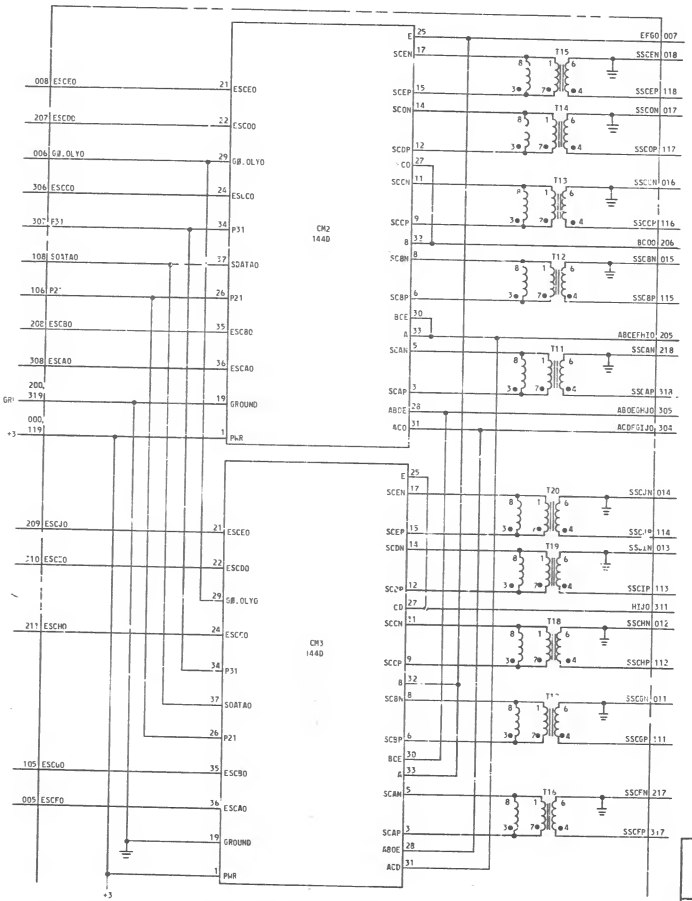
65

ISSUE 1

CPS-FC201

PART OF CPS FC201

10 I/F SUBCHANNELS-BIPOLAR INTERFACE CIRCUIT



FC201 CIRCUIT PACK

BELL TELEPHONE LABORATORIES INCORPORATED

CPS-FC201
SHEET 2

CPS-FC201

PART OF CPS FC201

10 I/# SUBCHANNELS-BIPOLAR INTERFACE CIRCUIT

COMPONENT LIST

INTEGRATED CIRCUIT

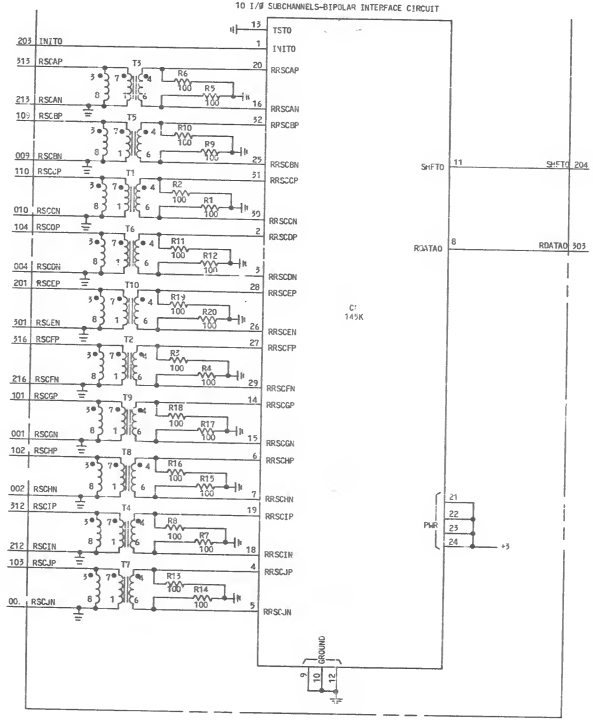
DESIG	CODE
CH1	145K
CH2,CH3	144D

RESISTOR

DESIG	CODE
R1-R20	KS-20200 L1,100

TRANSFORMER

DESIG	CODE
T1-T20	2664G



CIRCUIT DESCRIPTION

ISSUE
1

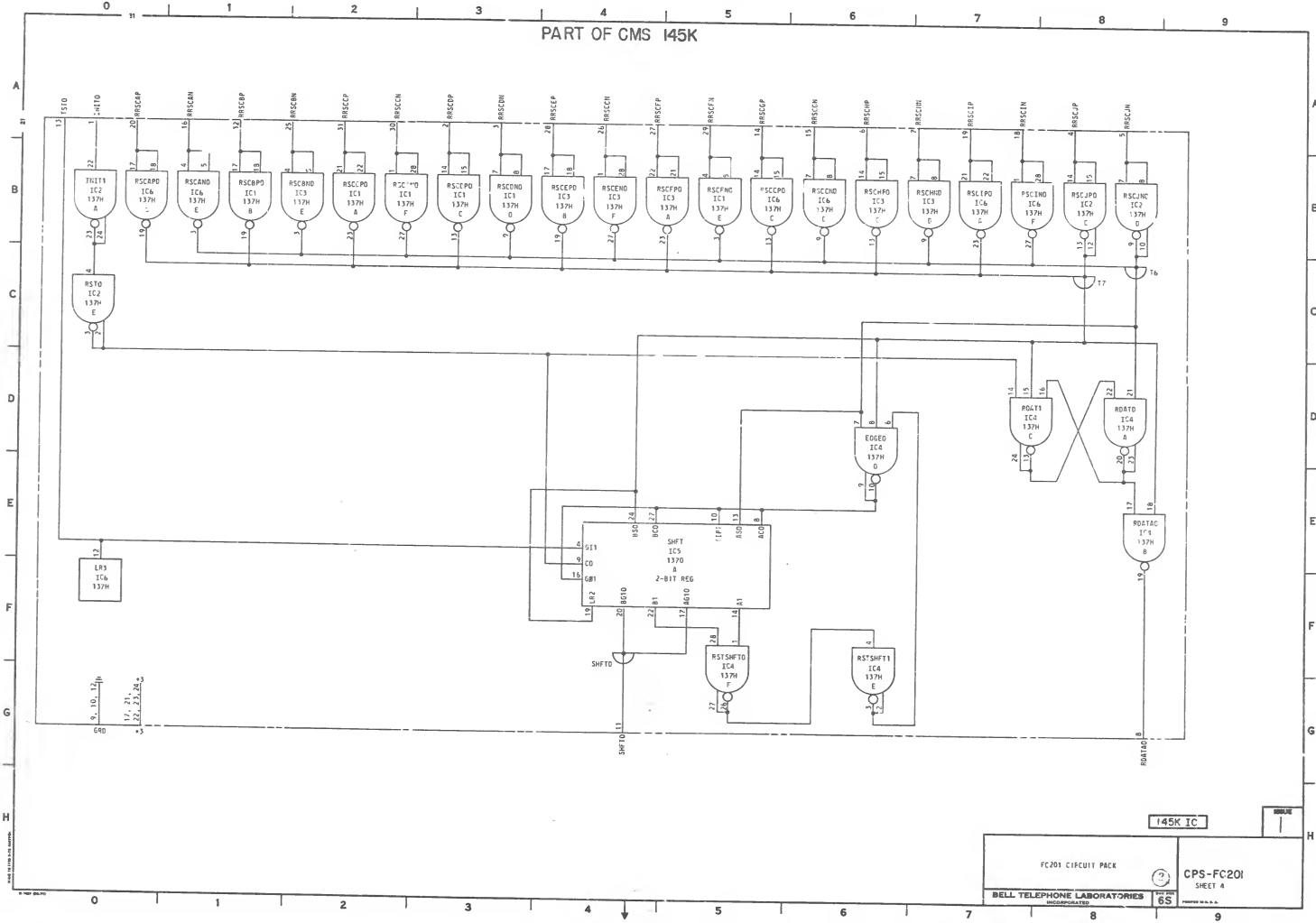
FC201 CIRCUIT PACK

CPS-FC201
SHEET 5

BELL TELEPHONE LABORATORIES INCORPORATED

65

CPS-FC201


PART OF CMS 145K
INITO
RSCAPD IC6 137H -
RSCAND IC6 137H E
RSCBPD IC1 137H B
RSCBND IC3 137H E
RSCCPD IC1 137H A
RSCCND IC1 137H F
RSCDPD IC1 137H C
RSCDND IC1 137H D
RSCEPD IC3 137H B
RSCEND IC3 137H F
RSCFPD IC3 137H A
RSCFND IC1 137H E
RSCGPD IC6 137H C
RSCGND IC6 137H F
RSCHPD IC3 137H C
RSCHND IC3 137H E
RSCIPD IC6 137H C
RSCIND IC6 137H F
RSCJPD IC2 137H C
RSCJND IC2 137H D
INIT1 IC2 137H A
RST0 IC2 137H E
LR3 IC6 137H
SHFT IC5 137D A 2-BIT REG
RSTSHFT0 IC4 137H
RSTSHFT1 IC4 137H E
EDGED IC4 137H D
RDAT1 IC4 137H C
RDAT0 IC4 137H A
RDATAC IC4 137H B
T7
T6
SHFT0
SHFT1
RDATA0
GRD
+5
145K IC
FC201 CIRCUIT PACK
CPS-FC201
SHEET 4
BELL TELEPHONE LABORATORIES INCORPORATED
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CPS-FC201

PART OF CMS 145K

COMPONENT LIST

INTEGRATED CIRCUITS

LOC CODE ELEM ID	IC1 137H DESIG	SH LOC	IC2 137H DESIG	SH LOC	IC3 137H DESIG	SH LOC	IC4 137H DESIG	SH LOC
A	RSCCPO	4B2	INIT1	4B0	RSCFPO	4B4	RDATO	4D8
B	RSCBPO	4B1			RSCEPO	4B4	RDATAO	4E8
C	RSCDPO	4B3	RSCJPG	4B8	RSCHPO	4B6	RQAT1	4D7
D	RSCDNO	4B3	RSCJNO	4B8	RSCHWO	3B7	EOFEO	4D6
E	RSCFNO	4B5	RSTO	4C0	RSCBWO	4B2	RSTSHFT1	4F6
F	RSCENO	4B2			RSCENO	4B4	RSTSHFTC	4F5
G								
H								

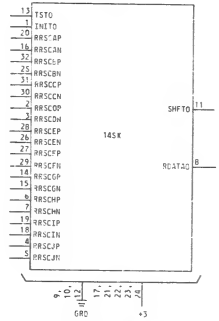
IC5 137G DESIG	SH LOC
SHFT	4E5

IC6 137H DESIG	SH LOC
RICIPO	4B7
RICBPO	4B6
RICGPO	4B5
RICJNO	4B6
RICJNO	4B1
RICINO	4B7

SUPPORTING INFORMATION

CATEGORY	NO
INTEGRATED CKT	145K
SERIES FOR LATEST CLASS "A" CHANGE (ANY HIGHER SER IS ACCEPTABLE)	4

SYMBOL



BATTERY AND GROUND TERMINALS FOR INTEGRATED CIRCUITS

IC CODE	+3 TERM.	GRD TERM.
137D	25	11
137H	25	11

CIRCUIT DESCRIPTION

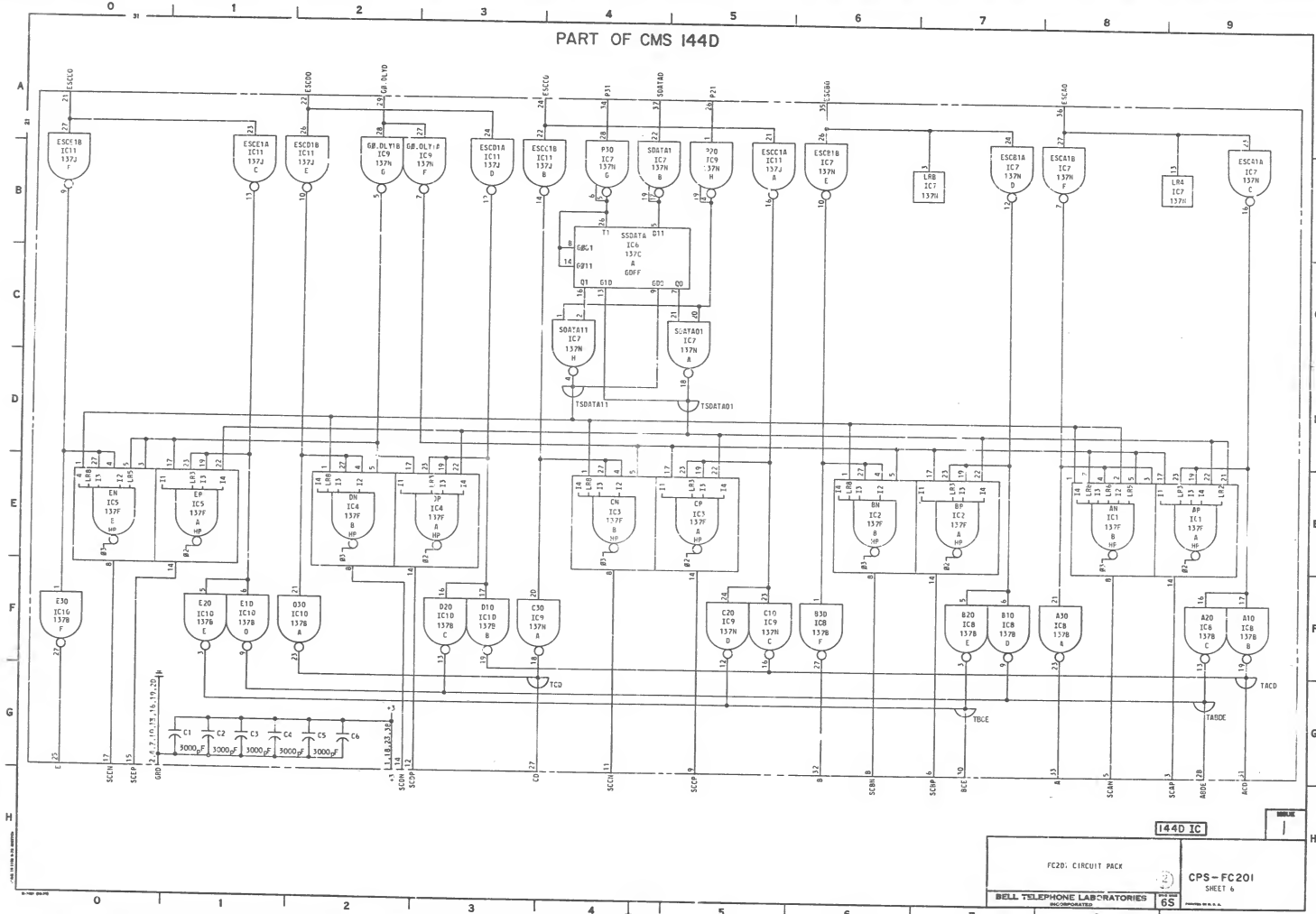
145K IC

FC201 CIRCUIT PACK

BELL TELEPHONE LABORATORIES INCORPORATED

CPS-FC201 SHEET 5

CPS-FC201


PART OF CMS 144D
144D IC
FC20: CIRCUIT PACK
CPS-FC201
SHEET 6
BELL TELEPHONE LABORATORIES INCORPORATED
6S
ISSUE 1
CPS-FC201

PART OF CMS 144D

COMPONENT LIST

INTEGRATED CIRCUITS

IC1
137F (NOTE 1)

LOC CODE ELEM ID	DESIG	SH LOC
A	AP	6E9
B	AN	6E8
C		
D		
E		
F		
G		
H		

IC2
137F (NOTE 1)

DESIG	SH LOC
BP	6E7
BN	6E6

IC3
137F (NOTE 1)

DESIG	SH LOC
CP	6E5
CN	6E4

IC4
137F (NOTE 1)

DESIG	SH LOC
DP	6E3
DN	6E2

IC5
137F (NOTE 1)

LOC CODE ELEM ID	DESIG	SH LOC
A	E?	6E1
B	E4	6E0
C		
D		
E		
F		
G		
H		

IC6
137C

LOC CODE ELEM ID	DESIG	SH LOC
A	SSDATA	6B4
B		
C		
D		
E		
F		
G		
H		

IC7
137N

DESIG	SH LOC
SDATA01	6J5
SDATA1	6B4
ESCA1A	6B9
ESCB1A	6J7
ESCB1B	6J6
ESCA1B	6J8
P30	6J4
SDATA11	6J4

IC8
137B

DESIG	SH LOC
A30	6F8
A10	6F9
A20	6F9
B10	6F7
B20	6F7
B30	6F6

IC9
137N

DESIG	SH LOC
C30	6F4
C10	6F5
C20	6F5
GATCHA	6B3
GATCHB	6B2
P20	6B5

IC10
137B

DESIG	SH LOC
D30	6F2
D10	6F3
D20	6F3
E10	6F1
E20	6F1
E30	6F0

IC11
137J

LOC CODE ELEM ID	DESIG	SH LOC
A	ESCC1A	6B5
B	ESCC1B	6B3
C	ESCE1A	6B1
D	ESCD1A	6B3
E	ESCD1B	6B2
F	ESCE1B	6B0
G		
H		

CAPACITORS

DESIG	CODE
[6] C1-C6	801A, 3000PF

NOTES:

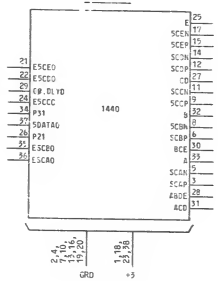
1. CAPACITOR CHIP 801A, 3000PF, IS BONDED ON EACH SIDE OF 137F SIC.

CIRCUIT DESCRIPTION

SUPPORTING INFORMATION

CATEGORY	NO
INTEGRATED CIRCUIT	144D
SERIES FOR LATEST CLASS "A" CHANGE (ANY HIGHER SERIES IS ACCEPTABLE)	5

SYMBOL



BATTERY AND GRD TERMINALS FOR INTEGRATED CIRCUITS

IC CODE	+5 TERM.	GRD TERM.
137B	25	11
137C	25	11
137F	25,26	11,12
137J	25	11
137N	25	11

144D IC

ISSUE 1

FC201 CIRCUIT PACK

CPS-FC201
SHEET 7

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CPS-FC201